

Please amend the claims as the following:

1. (original) A method of removing non-condensing gas within a heat pipe, comprising:
filling a predetermined amount of liquid working fluid into the heat pipe with an opening on a top end thereof;
heating the heat pipe to obtain the working fluid with a saturated temperature;
maintaining the saturated temperature to have the working fluid being evaporated and boiled, such that the non-condensing gas within the heat pipe is discharged by vapor of the working fluid; and
sealing the opening when a predetermined amount of the vapor of the working fluid is discharged.
2. (original) The method of Claim 1, wherein the saturated temperature indicates a boiling point of the working fluid.
3. (original) The method of Claim 1, further comprising the step of reducing the size of the opening for discharging the non-condensing gas.
4. (original) The method of Claim 1, wherein the working fluid is mildly evaporated to achieve more precise control of the sealed working fluid in the heat pipe by conducting heat to avoid too violent evaporation so that the liquid working fluid does not spit out of the heat pipe.
5. (original) The method of Claim 1, wherein the working fluid is acceleratedly evaporated by conducting heat to have the liquid working fluid spits out of the heat pipe.
6. (original) The method of Claim 1, further comprising the step of keeping a temperature around of the opening not less than the saturated temperature of the working fluid.
7. (cancelled)
8. (cancelled)
9. (cancelled)
10. (cancelled)
11. (cancelled)